

	Q bio m3 / Tag	Q min l / s	Q max l / s
Mittelwert	16'484		
20%-Wert	9'228	69	240
50%-Wert	11'726	84	274
80%-Wert	22'981	152	508
Q tw 1)	10'477	77	257
2 Q tw			514

1) Mittel aus 20% und 50%-Wert

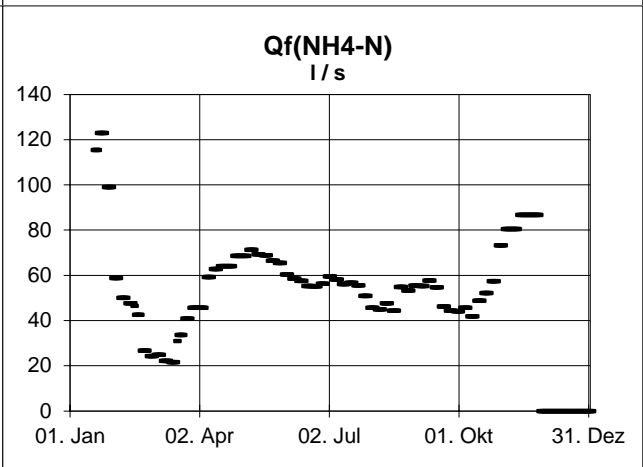
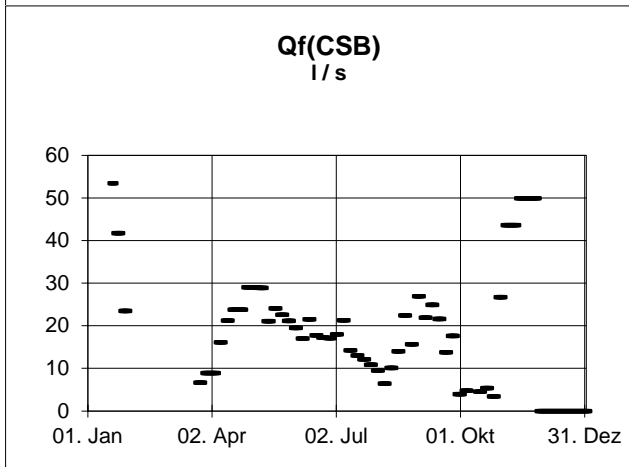
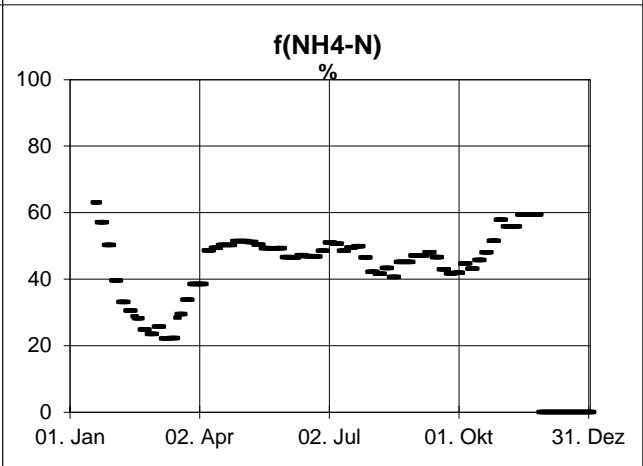
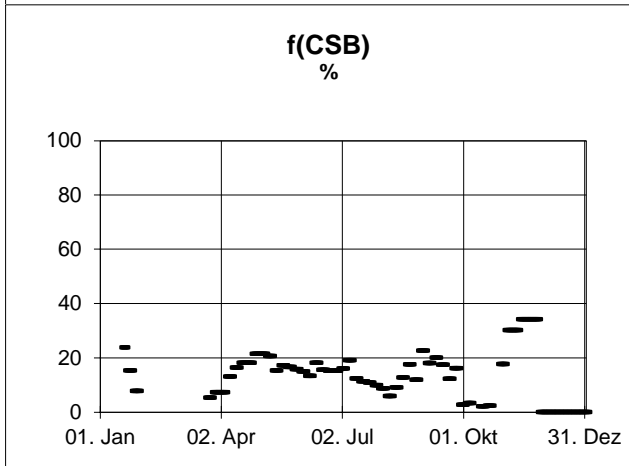
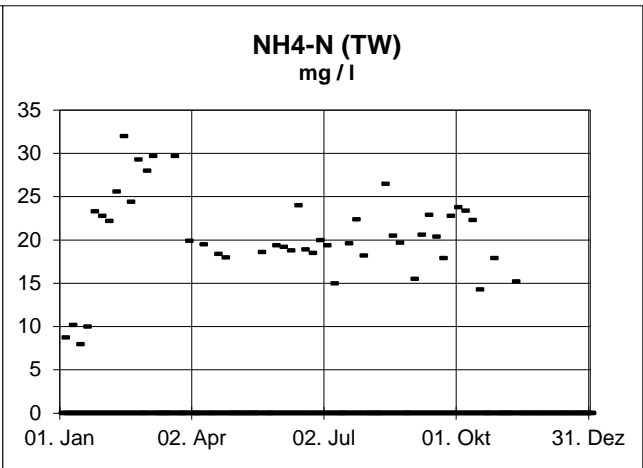
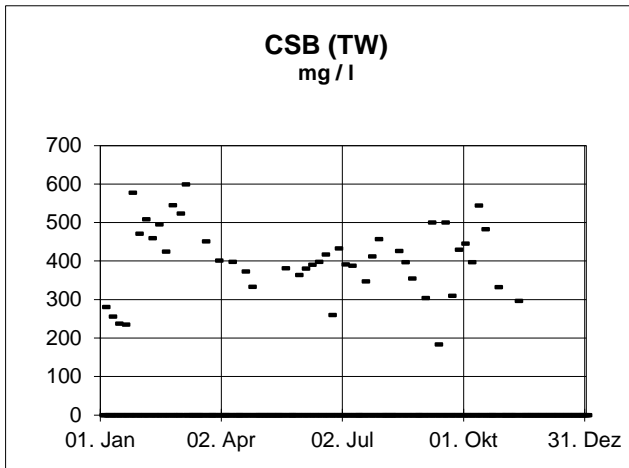
Fremdwasseranteil 20 %

siehe Seite 2

	Tagesmittelwerte	
	m3 / d	l / s
Q tw	10'477	121
Q fremd 2)	2'131	25
Q schmutz 3)	8'346	97

2) = Q tw * Fremdwasseranteil / 100

3) = Q tw - Q fremd



Vorgaben:

Q schmutz	200 l/EW*Tag
CSB	90 g/EW*Tag
NH4-N	7.5 g/EW*Tag
K soll (CSB)	450 mg/l
K soll (NH4-N)	37.5 mg/l

K soll: erwartete Konzentration im Zulauf, wenn nur Schmutzwasser zuläuft!

Schätzung aus EW biochemisch

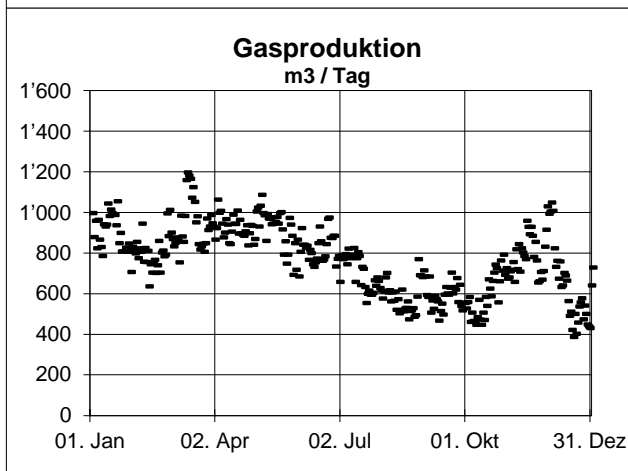
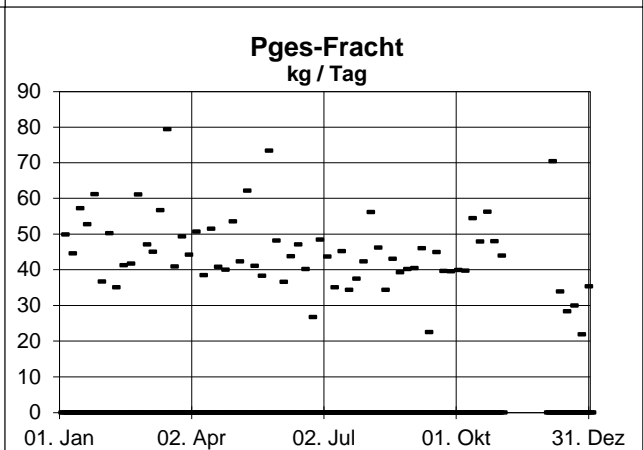
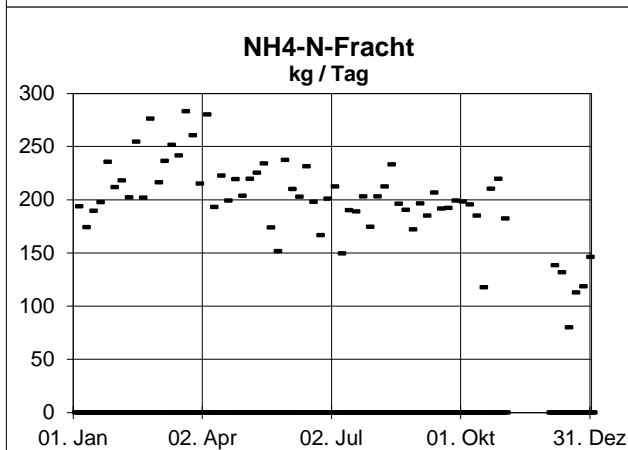
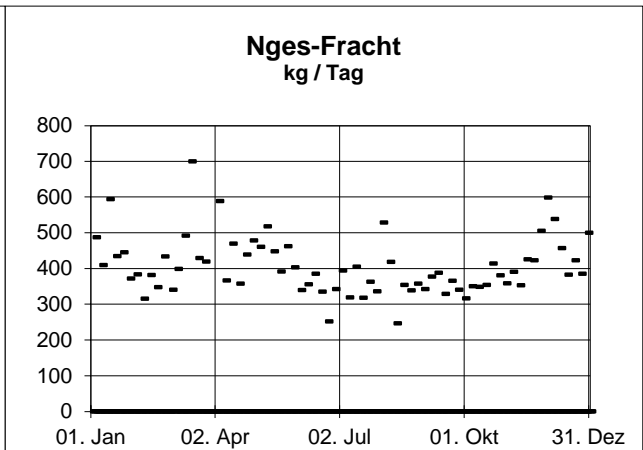
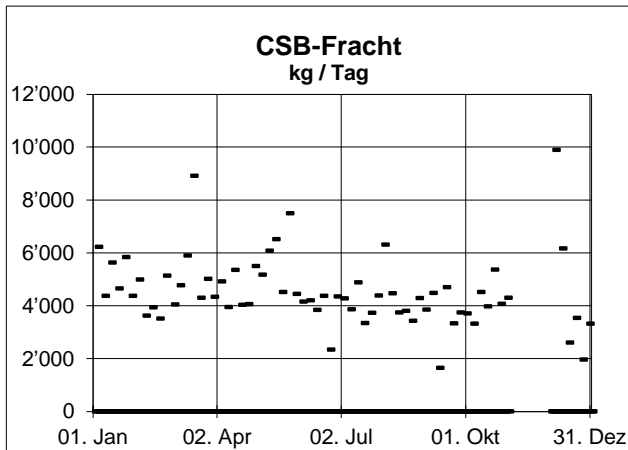
Q tw	10'477 m ³ / Tag
Q schmutz (EW) ¹⁾	10'000 m ³ / Tag
Q fremd (EW)	477 m ³ / Tag
f (EW)	5 %

¹⁾ 200 l / EW * Tag

Schätzung aus den Zulaufkonzentrationen:

f(CSB) Jahresmittel	11 %
f(NH4-N) Jahresmittel	46 %

f Mittelwert	20 %
f gewählt	20 %

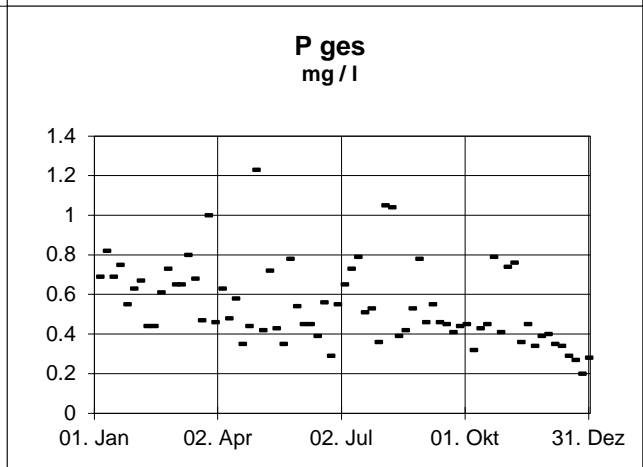
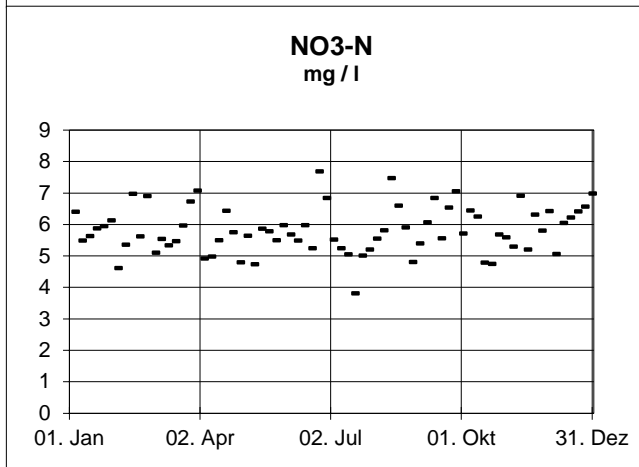
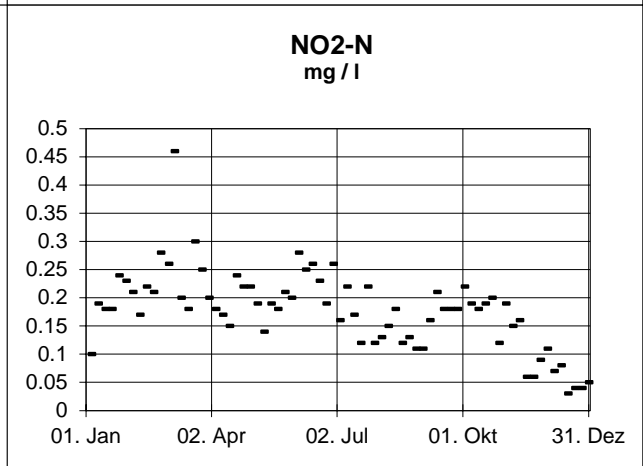
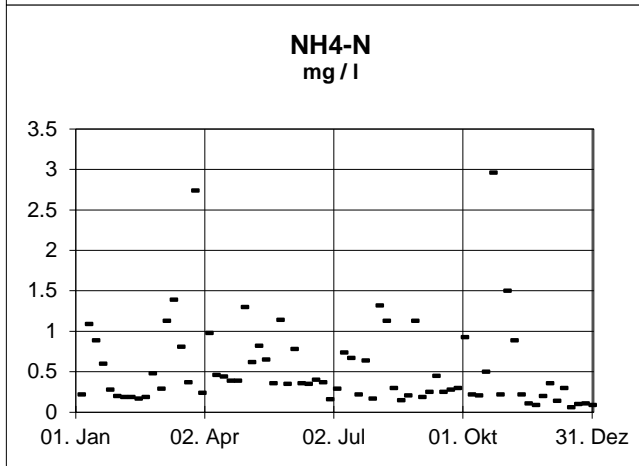
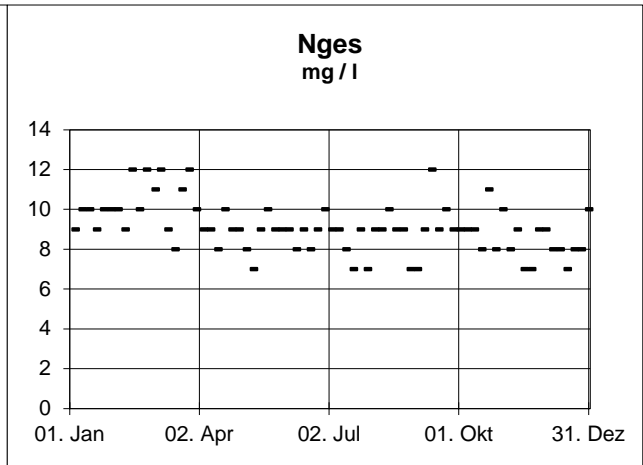
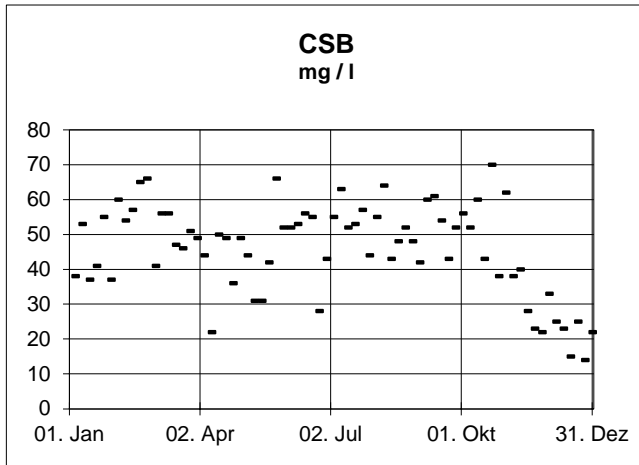


EZ angeschlossen	21'000
EW biochem. gewählt	50'000
EW biochem. 80%-Wert	48'000
EW Stickstoff	27'000
EW Phosphor	28'000

Zulauffrachten	BSB5 kg/Tag	CSB kg/Tag	NH4-N kg/Tag	Pges kg/Tag	Gasp. m3/Tag	FS kg/Tag
Mittelwert	1'549	4'538	200	45	765	2'439
50%-Wert	1'420	4'336	201	44	783	
80%-Wert	1'657	5'321	225	51	930	

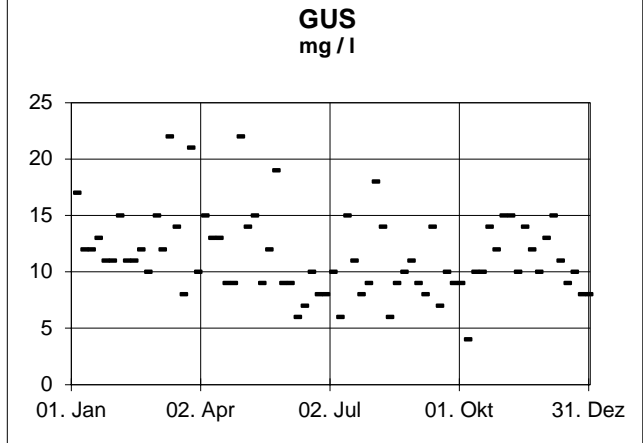
spezifische Belastung pro EW	g / Tag	g / Tag	g / Tag	g / Tag	Probenahmeort: ab VKB	l / Tag	g / Tag
	45	90	7.5	1.6		30	85

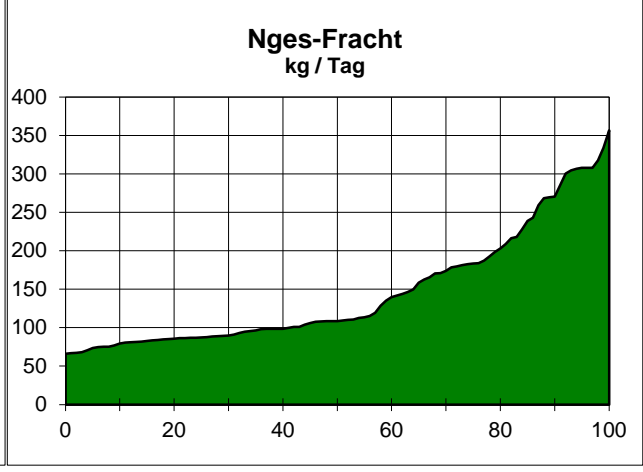
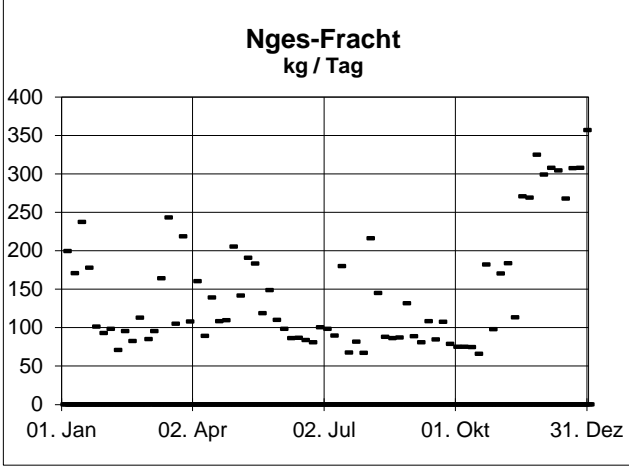
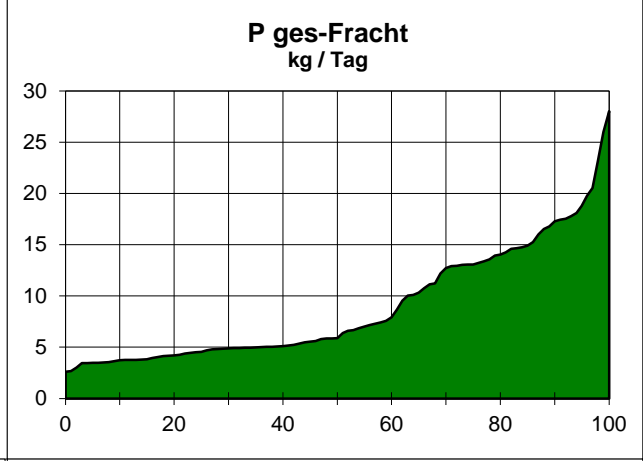
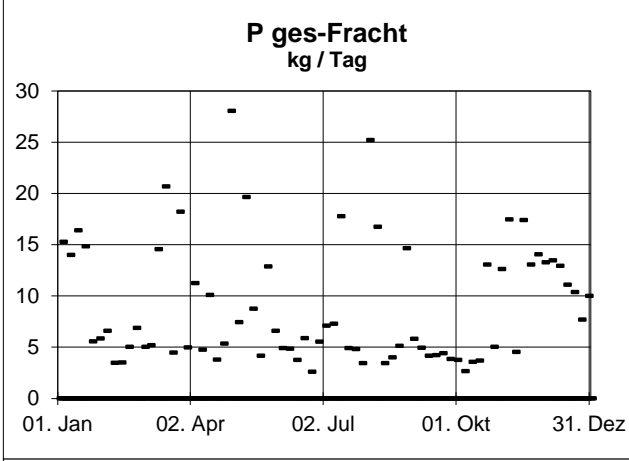
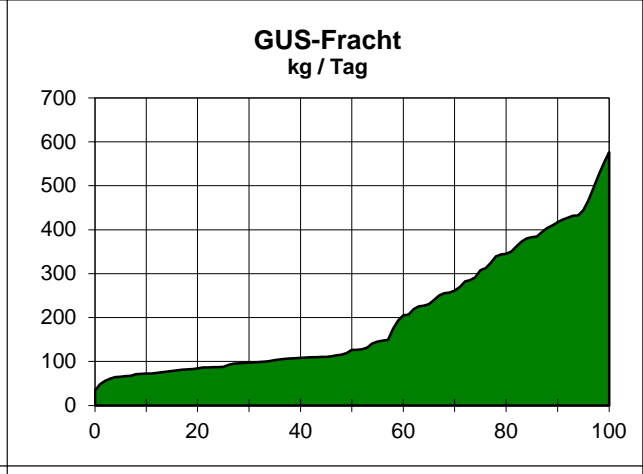
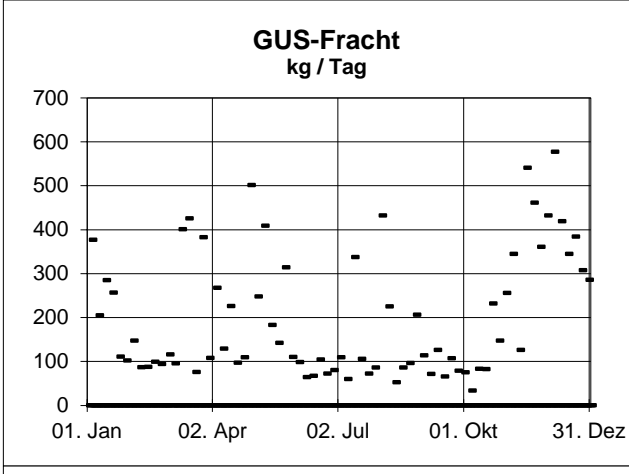
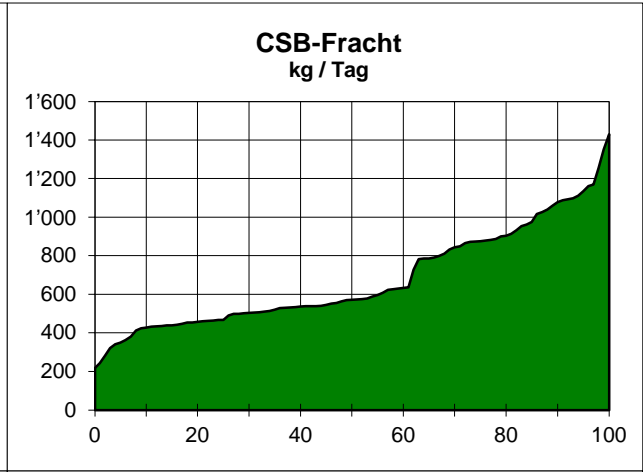
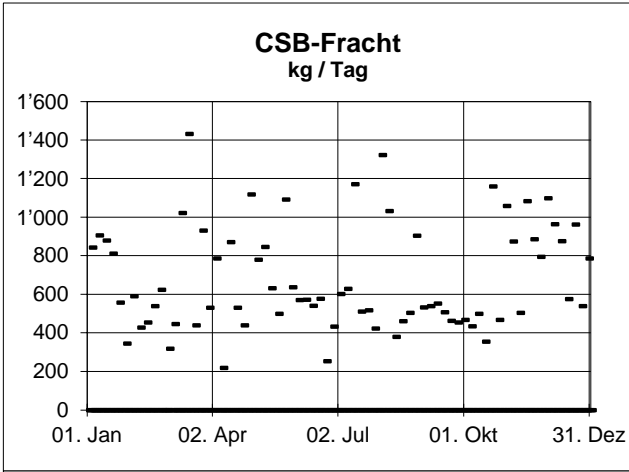
Einwohnerwerte	BSB5 EW	CSB EW	NH4-N EW	Pges EW	Mittelwerte EW	Gasp. EW	FS EW
Mittelwert	34'413	50'425	26'608	27'989	34'859	25'497	28'692
50%-Wert	31'554	48'173	26'827	27'302	33'464	26'100	
80%-Wert	36'816	59'122	29'978	32'078	39'499	31'007	

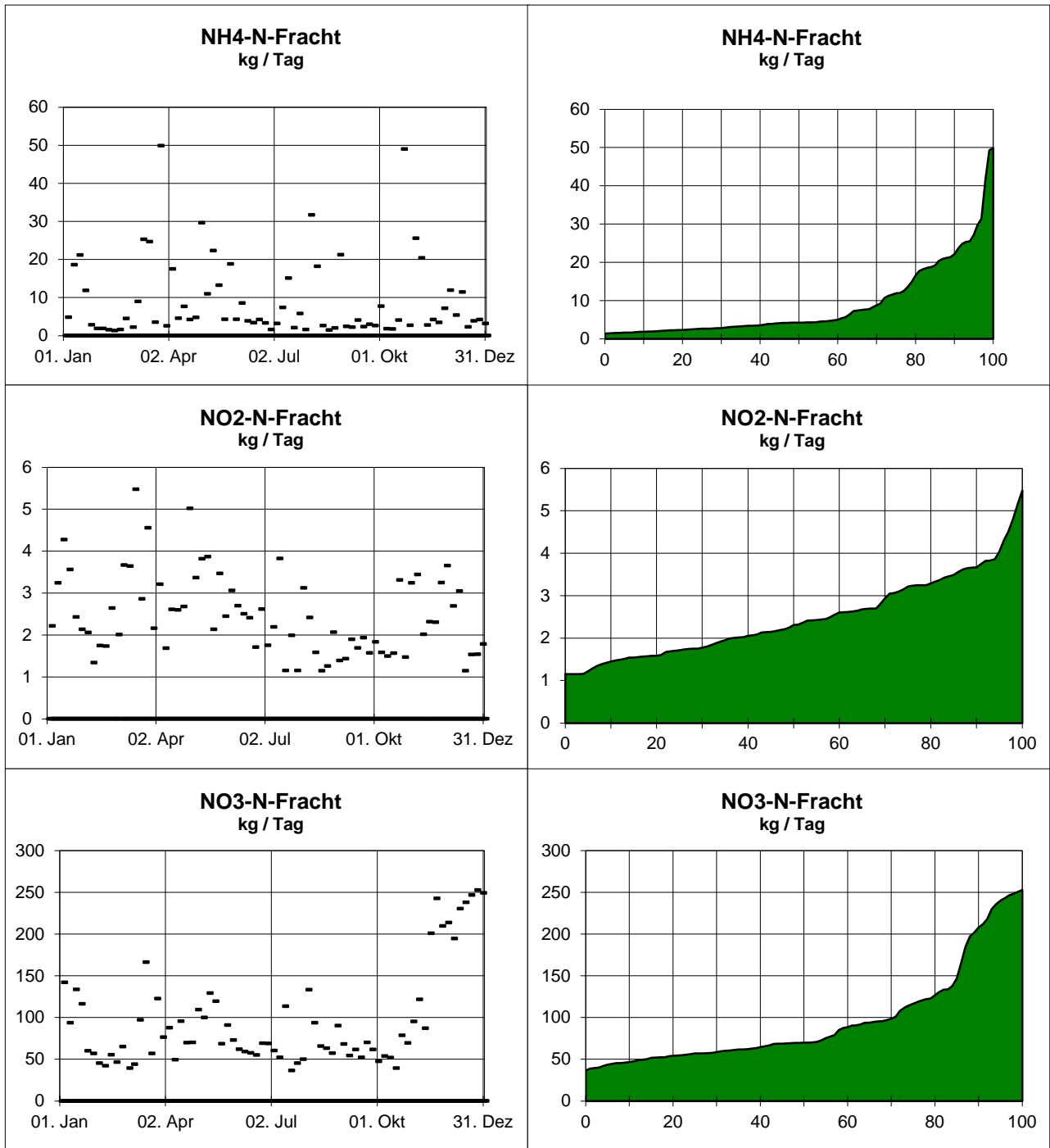


Angaben in mg/l	Mittelwert	90%-Wert	Grenzwert ¹⁾
BSB5			15
CSB	45.8	60.8	
GUS	11.5	15.0	15
NH4-N	0.5	1.1	2
NO2-N²⁾	0.2	0.3	0.3
NO3-N	5.8	6.9	
P ges	0.55	0.79	0.8

¹⁾ nach GSchV vom 28. Oktober 1998
²⁾ Richtwert





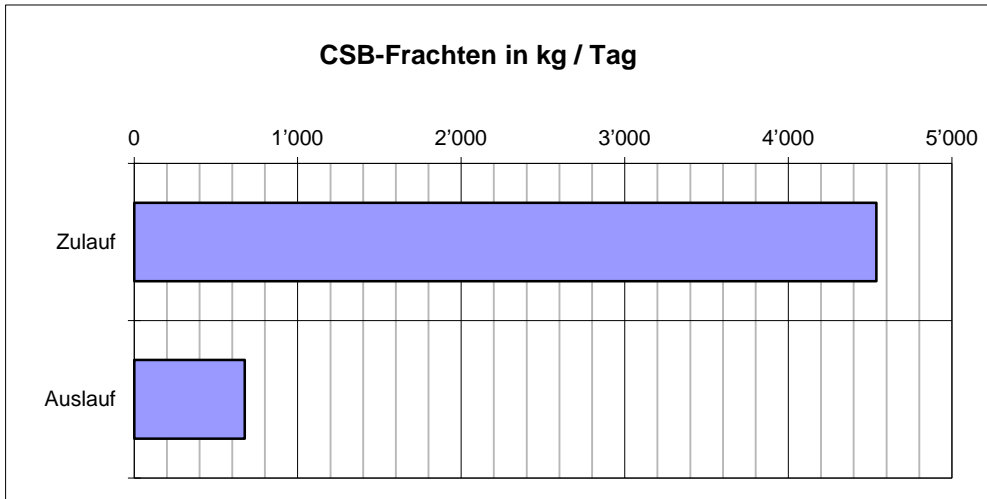


Auslauffrachten:

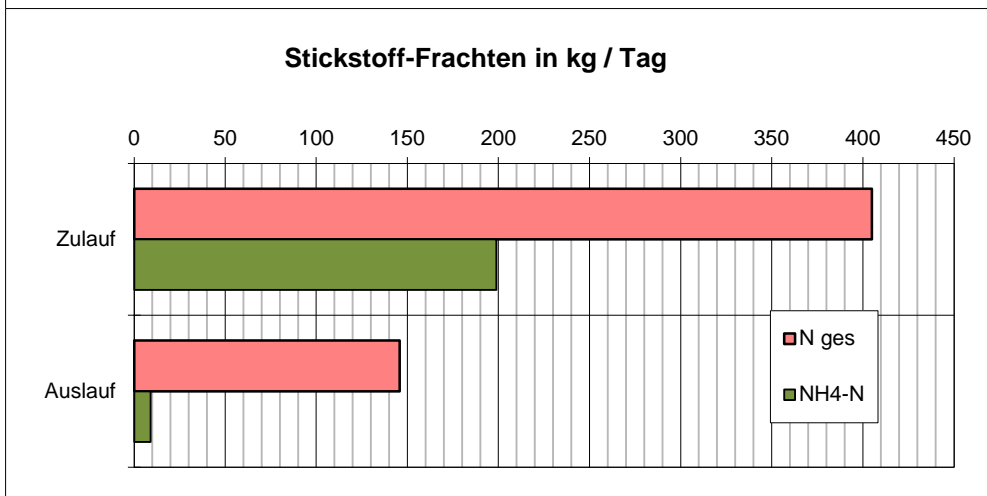
Angaben in kg/Tag	Mittel- wert	50%- Wert	80%- Wert	Mittel 5 - 95 %
CSB	676	572	904	664
GUS	200	126	345	190
Nges	146	108	203	140
NH4-N	9.0	4.2	16.5	7.6
NO2-N	2.5	2.3	3.3	2.4
NO3-N	96.6	69.8	126.7	91.2
P ges	8.9	5.9	14.0	8.4

Abbauleistungen:

	Zulauf kg / Tag	Auslauf kg / Tag	Abbau	Grenz- wert
CSB	4'538	676	85%	80%
N ges	405.1	145.9	64%	30%
NH4-N	198.9	9.0	95%	90%
Pges	44.8	8.9	80%	80%

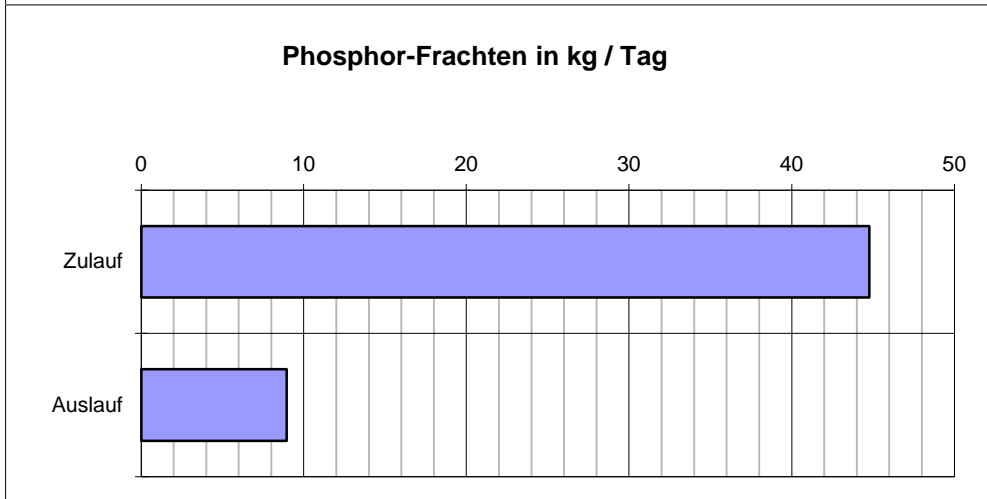


CSB-Abbau	
3'862 kg / Tag	85%
80%	Richtwert

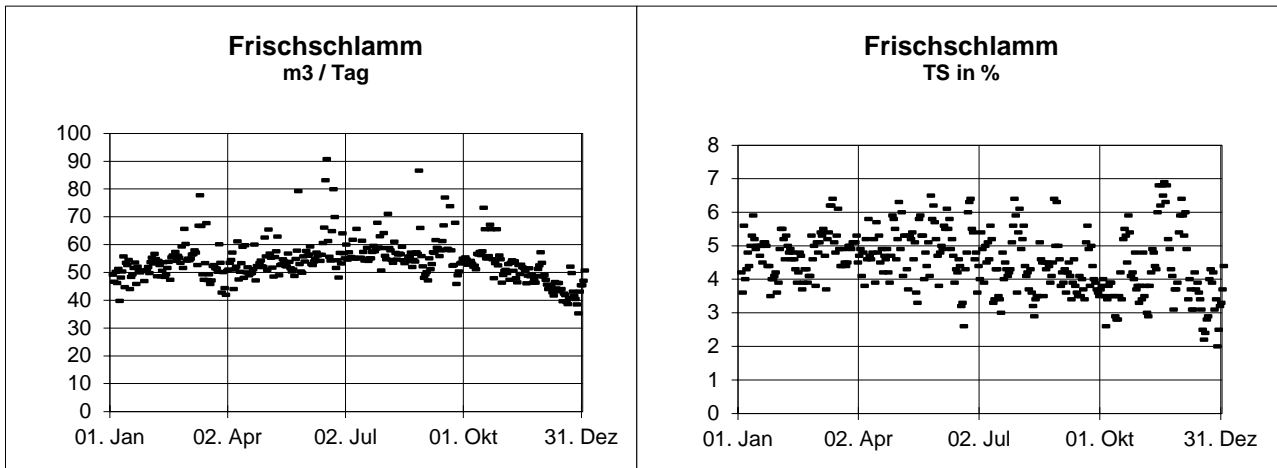


N-Elimination	
259 kg / Tag	64%
30%	

Nitrifikation	
190 kg / Tag	95%
90%	



P-Elimination	
36 kg / Tag	80%
80%	

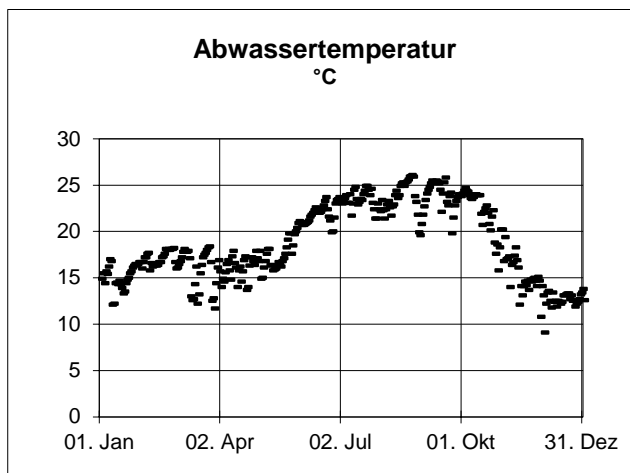


Frischschlammmanfall: Mittelwerte

Frischschl. nass	53.9	m3/Tag
TS-Anteil	4.5	%
Frischschl. in TS	2'439	kg/Tag

Jahresanfall

Frischschl. in TS	890	t/ Jahr
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Abwassertemperatur:

Mittelwert	18.7 °C
20%-Wert	14.7 °C
50%-Wert	17.8 °C
80%-Wert	23.3 °C

Bemerkungen zur Datenauswertung: